

WHAT IS CLAIMED IS:

1. A silver halide photographic emulsion comprising grains, wherein not less than 70% of the total projected area of the grains are occupied by tabular grains meeting requirements (i) to (v) below:

(i) silver bromochloroiodide grains having (111) faces as major surfaces,

(ii) hexagonal grains having a ratio of the length of an edge having the maximum length to the length of an edge having the minimum length of not more than 2,

(iii) perfect epitaxial grains having a total of six epitaxial junctions each existing only in each of six apex portions of the hexagonal grains,

(iv) the silver chloride content is 1 to 6 mol%, and

(v) the silver iodide content is 0.5 to 10 mol%.

2. The emulsion according to claim 1, wherein said tabular grains further meet the following requirement:

(vi) an equivalent-circle diameter is not less than 0.6 μm and a thickness is not more than 0.2 μm .

3. The emulsion according to claim 1, wherein the variation coefficient of the equivalent-circle diameters of all the grains is not more than 30%.

4. The emulsion according to claim 2, wherein the variation coefficient of the equivalent-circle diameters of all the grains is not more than 30%.

5. The emulsion according to claim 1, wherein said tabular grains further meet the following requirement:

5 (vii) an equivalent-circle diameter is not less than 1.0 μm and a thickness is not more than 0.1 μm .

6. The emulsion according to claim 1, wherein the variation coefficient of the equivalent-circle diameters of all the grains is not more than 20%.

10 7. The emulsion according to claim 2, wherein the variation coefficient of the equivalent-circle diameters of all the grains is not more than 20%.

8. The emulsion according to claim 5, wherein the variation coefficient of the equivalent-circle diameters of all the grains is not more than 20%.

15 9. The emulsion according to claim 1, wherein the perfect epitaxial grains defined in said requirement (iii) have no dislocation line except in the epitaxial apex portions.

20 10. The emulsion according to claim 2, wherein the perfect epitaxial grains defined in said requirement (iii) have no dislocation line except in the epitaxial apex portions.

25 11. The emulsion according to claim 3, wherein the perfect epitaxial grains defined in said requirement (iii) have no dislocation line except in the epitaxial apex portions.

12. The emulsion according to claim 4, wherein the

perfect epitaxial grains defined in said requirement
(iii) have no dislocation line except in the epitaxial
apex portions.

5 13. The emulsion according to claim 5, wherein the
perfect epitaxial grains defined in said requirement
(iii) have no dislocation line except in the epitaxial
apex portions.

10 14. The emulsion according to claim 6, wherein the
perfect epitaxial grains defined in said requirement
(iii) have no dislocation line except in the epitaxial
apex portions.

15 15. The emulsion according to claim 7, wherein the
perfect epitaxial grains defined in said requirement
(iii) have no dislocation line except in the epitaxial
apex portions.

16 16. The emulsion according to claim 8, wherein the
perfect epitaxial grains defined in said requirement
(iii) have no dislocation line except in the epitaxial
apex portions.

20 17. The emulsion according to claim 1, wherein
said tabular grains further meet the following
requirement:

25 (viii) the silver chloride content of each
individual tabular grain is 0.7 to 1.3 CL mol%, wherein
CL mol% is the average silver chloride content of all
the grains.

18. The emulsion according to claim 1, wherein

said tabular grains further meet the following requirement:

(ix) the silver iodide content of each individual tabular grain is 0.7 to 1.3 I mol%, wherein I mol% is the average silver iodide content of all the grains.

19. The emulsion according to claim 1, wherein the pBr of the emulsion at 40°C is not more than 3.5.

20. The emulsion according to claim 2, wherein the pBr of the emulsion at 40°C is not more than 3.5.

21. A silver halide photographic lightsensitive material having a sensitive layer on a support, wherein the sensitive layer contains the silver halide photographic emulsion according to claim 1.